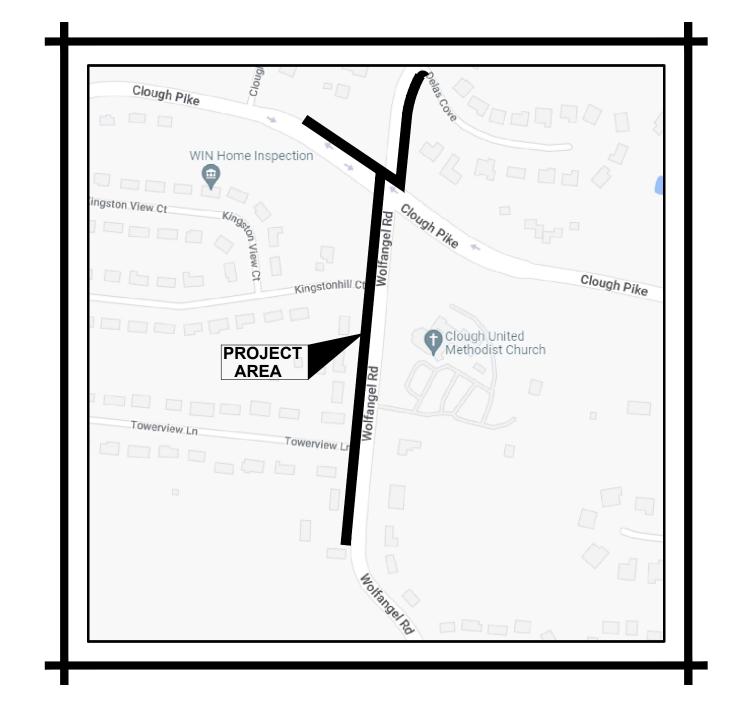
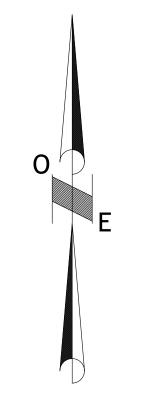
# WOLFANGEL ROAD SIDEWALK



**VICINITY MAP** 



**ANDERSON TOWNSHIP** HAMILTON COUNTY, OHIO CR #383 CR #358

# **INDEX OF SHEETS**

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# **50% PLANS** NOT FOR CONSTRUCTION



STANDARD CONSTR	RUCTION DRAWINGS	ODOT STANDARD CONSTRUCTION DRAWINGS	
		ODOT SUPPLEMENTAL SPECIFICATIONS	
		800 XXX	



440 E. HOEWISHER ROAD | SIDNEY, OHIO 45365 | 937.497.0200 8956 GLENDALE MILFORD ROAD, SUITE 1 LOVELAND, OHIO 45140 513.239.8554

www.CHOICEONEENGINEERING.com

**DECEMBER 23, 2022** 

		*
	XX/XX/2022	PROF
WESLEY J. WOLTERS, P.E. P.E#86760	DATE	B.C.

# 2019 SPECIFICATIONS

CHANGES AND GENERAL NOTES LISTED IN THE PLAN, SHALL GOVERN THIS IMPROVEMENT. THE MOST RESTRICTIVE SHALL

# PROJECT DESCRIPTION

ROAD, NORTH OF CLOUGH PIKE IN ANDERSON TOWNSHIP, FOR A PORTION OF THE PROJECT.

# EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED ARD	EA = XX ACRE.
ESTIMATED CONTRACTOR	- VV ACRES

NOTICE OF INTENT (NOI)		
EARTH DISTURBED AREA	=	XX ACRE.



**REVISIONS:** 

DRAWN BY CHECKED BY SHEET NUMBER 1 OF 35

#### **WOLFANGEL ROAD TYPICAL SECTION** UNLESS SHOWN OTHERWISE WITH BUFFER

WALK TRANSITIONS FROM 6' TO STA. X+XX TO STA. X+XX = X.XX'5' FROM STATION X+XX TO STA. X+XX TO STA. X+XX = X.XX'STATION X+XX.

# **WOLFANGEL ROAD TYPICAL WITH** WALK AND CURB ATTACHED, WALK **SLOPING TOWARDS CURB**

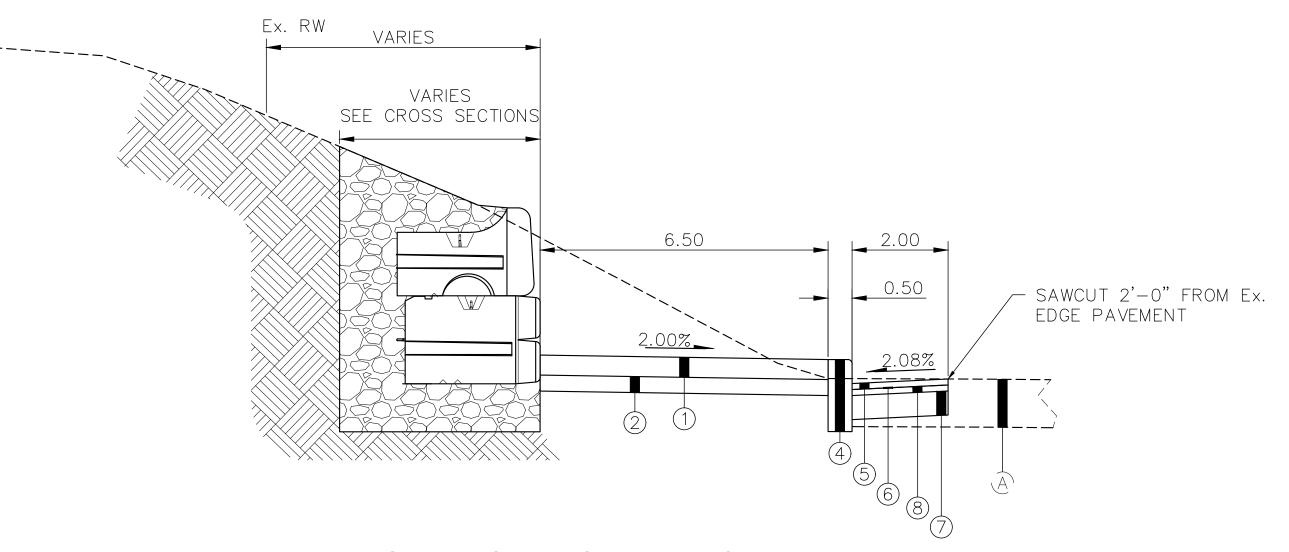
6.50\*\*\*

0.50

SAWCUT 1.00' FROM Ex.

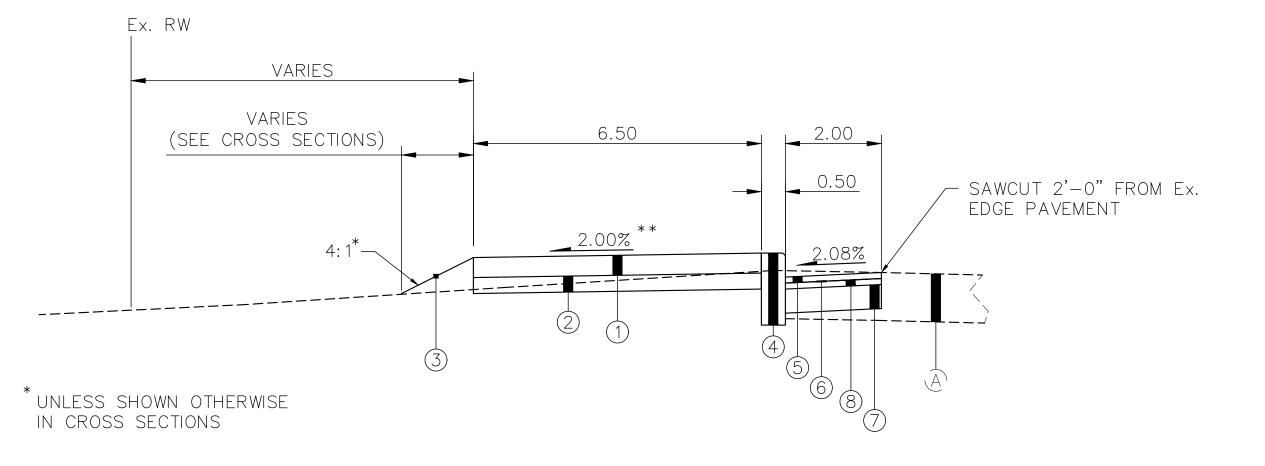
EDGE PAVEMENT

STA. X+XX TO STA. X+XX=X.XX' STA. X+XX TO STA. X+XX = X.XX'STA. X+XX TO STA. X+XX = X.XX'



# **WOLFANGEL ROAD TYPICAL WITH RETAINING WALL**

STA. X+XX TO STA. X+XX = X.XX'STA. X+XX TO STA. X+XX = X.XX'



\*WALK TRANSITIONS FROM 2.00% TO -2.00% FROM STATION X+XX TO STATION X+XX.

Ex. RW

UNLESS SHOWN OTHERWISE

WALK TRANSITIONS FROM

+2.00% TO -2.00% FROM

STATION X+XX TO STATION

WALK AT STATIONS X+XX

AND X+XX IS REDUCED DOWN

IN CROSS SECTIONS

X+XX.

TO X'.

VARIES

VARIES

(SEE CROSS SECTIONS)

**WOLFANGEL ROAD TYPICAL WITH** WALK AND CURB ATTACHED, WALK **SLOPING AWAY FROM CURB** 

STA. X+XX TO STA. X+XX = X.XX'

# **TYPICAL SECTION LEGEND**

- 1) ITEM 608 5" CONCRETE SIDEWALK
- 2) ITEM 411 3" STABILIZED CRUSHED AGGREGATE
- (3) ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN

IN CROSS SECTIONS

- 4) ITEM 609 TYPE 6 CURB, AS PER PLAN
- $\bigcirc$  ITEM 441 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- (6) ITEM 407 NON-TRACKING TACK COAT, SURFACE COURSE, (APPLIED AT 0.06 GAL./S.Y.)
- (7) ITEM 301 6" ASPHALT CONCRETE BASE, PG64-22
- (8) ITEM 441 -1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- (A) EXISTING PAVEMENT AND BASE (DEPTH UNKNOWN)

# ABBREVIATIONS/SYMBOLS LEGEND







(DD) DO NOT DISTURB

- REMOVE
- (RL) RELOCATE
- (BO) BY OTHERS
- (AG) ADJUST TO GRADE
- (RG) RECONSTRUCT TO GRADE
- (RR) REMOVE AND RESET
- (AB) TO BE ABANDONED
- (CR) CURB RAMP

BC - PROPOSED BACK OF CURB ELEVATION

FW - PROPOSED FACE OF WALK ELEVATION

D - PROPOSED CENTERLINE DITCH ELEVATION

HP - PROPOSED HIGHPOINT ELEVATION

#### PLAN - HATCH LEGEND



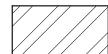
#### **CONCRETE WALK:**

ITEM 608, 5" CONCRETE WALK ITEM 411, 3" STABILIZED CRUSHED AGGREGATE



#### **CURB RAMPS:**

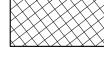
ITEM 608, CURB RAMP ITEM 411, 3" STABILIZED CRUSHED AGGREGATE (COST INCIDENTAL TO ITEM 608)



# **RESIDENTIAL CONCRETE DRIVES:**

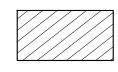
ITEM 452, 7" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN

ITEM 304, 4" AGGREGATE BASE, AS PER PLAN



#### SAWCUT AND FULL DEPTH PAVEMENT REPAIR AREA

SEE TYPICAL SECTION



#### **ASPHALT DRIVES**

ITEM 441, 1-1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449), PG64-22 ITEM 407, NON-TRÀCKING TACK COAT, SURFACE COURSE, (APPLIED AT 0.06 GAL./S.Y.)

ITEM 441, 2-1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449)

ITEM 304, 4" AGGREGATE BASE, AS PER PLAN

Choice One Engineering

**REVISIONS:** 

FILE NAME

DRAWN BY JSM

CHECKED BY WJW

PROJECT No. HAMAND2202

2/23/2022 SHEET NUMBER

2 OF 35

#### **GENERAL NOTES AND DETAILS**

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE HAMILTON COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS OR OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE TOWNSHIP.

#### **MODIFICATIONS**

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE TOWNSHIP.

#### **FUNDING**

DUE TO FUNDING, THE OWNER RESERVES THE RIGHT TO INCREASE, DECREASE, OR OMIT ANY ITEMS LISTED IN THE BID SCHEDULE.

NO FINAL UNIT PRICE ADJUSTMENTS PER ODOT 104.02 WILL BE MADE AT CONTRACT FINALIZATION

## **CONTRACT WORK PERFORMED BY THE TOWNSHIP**

IF THE CONTRACTOR REFUSES OR FAILS TO PERFORM WORK OF ANY IMMEDIATE NATURE SUCH AS THE PLACEMENT OF BARRICADES, REPLACEMENT OF SIGNS, OR OTHER DEVICES, REQUIRED BY THIS CONTRACT IN A REASONABLE TIME, THE TOWNSHIP WILL PERFORM THE NECESSARY WORK. THE CONTRACTOR SHALL REIMBURSE THE TOWNSHIP AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE TOWNSHIP SHALL NOTIFY OR ATTEMPT TO NOTIFY THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. THE TOWNSHIP SHALL BE REIMBURSED BY A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE TOWNSHIP.

#### **MISCELLANEOUS**

COMPENSATION FOR THE WORK AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICES INCLUDED ON THE BID PROPOSAL. NO SEPARATE PAYMENT WILL BE MADE FOR TASKS (NOT ALL INCLUSIVE) INCLUDING ITEMS SUCH AS MOBILIZATION. RECORD DRAWINGS AND CONNECTIONS TO EXISTING FACILITIES.

CONTRACTOR IS RESPONSIBLE TO FILL OUT ALL NECESSARY CO-PERMITTEE PERMITS FOR THE OEPA STORMWATER NOI.

#### **UNDERGROUND UTILITIES**

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

#### **UTILITY STATEMENT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. FURTHER, CHOICE ONE ENGINEERING CORPORATION DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH CHOICE ONE ENGINEERING CORPORATION DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

#### **UTILITY OWNERSHIP**

STREETS AND STORM SEWER HAMILTON COUNTY ENGINEER 223 W. GALBRAITH ROAD CINCINNATI, OHIO 45215

(513) 946-8430 ATTN: ERIC BECK

#### **SANITARY- HAMILTON COUNTY**

MSD OF GREATER CINCINNATI 1600 GEST STREET CINCINNATI, OHIO 45204 (513) 244-1330 ÀTTŃ: ROBERT FRANKLIN

# **ELECTRIC**

DUKE ENERGY 2010 DANA AVENUE ROOM EF 324 CINCINNATI, OH 45207 (513) 508-9609 ATTN: SHANE ERHART

**TELEPHONE** CINCINNATI BELL 221 E. 4TH ST. BUILDING 121-900 CINCINNATI, OH 45202 (513) 565-7187

ATTN: BRECK COWAN

CHARTER COMMUNICATIONS 11252 CORNELL PARK DRIVE CINCINNATI, OHIO 45242 (513) 386-5483ATTN: JIM O'REILLY

#### DUKE ENERGY 139 E. FOURTH STREET MAILDROP: 460A CINCINNATI, OHIO 45202

ATTN: HASSAN EMORY

(513) 287-3213

OHIO UTILITIES PROTECTION SERVICES 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE (1-800-362-2784)

#### **UTILITY INTERFERENCE**

IF, DURING CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE COMPANIES HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. THERE WILL BE NO DELAYS ALLOWED FOR UTILITY INTERFERENCES.

LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES AND STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE METHOD OF SUPPORT OR PROTECTION MUST BE APPROVED BY THE APPROPRIATE UTILITY COMPANY, AND IF FACILITY IS DAMAGED BY THE CONTRACTOR, ALL REPAIRS SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE

THE CONTRACTOR IS HEREBY ADVISED THAT ALL UTILITY COMPANIES AFFECTED BY THIS PROJECT MAY BE WORKING CONCURRENTLY WITHIN THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES.

#### REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND BEFORE FINAL ACCEPTANCE BY THE TOWNSHIP, REPRESENTATIVES OF THE TOWNSHIP AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWER THAT MAY BE AFFECTED BY THE WORK AND ARE TO REMAIN IN SERVICE. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE TOWNSHIP.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE TOWNSHIP.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE TOWNSHIP.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

#### **CONSTRUCTION NOISE**

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS SPECIFIED IN THE TOWNSHIP NOISE ORDINANCE. IF THERE IS NO NOISE ORDINANCE IN PLACE, POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 PM TO 7:00AM.

#### **HAUL ROADS**

WHEN PICKING A DUMP SITE, CONTRACTOR IS TO TAKE INTO CONSIDERATION THE HAUL ROAD ROUTE AND ANY NECESSARY ROADWAY REPAIR CAUSED BY HAULING TO THE DUMP SITE.

#### **EXISTING DRAINAGE FACILITIES**

ANY DRAINAGE CONDUIT CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE CONDUIT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL CONDUIT REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE TOWNSHIP BEFORE IT IS COVERED.

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. THE COST SHALL BE INCLUDED IN THE BID PRICE FOR THE NEW CONDUIT.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE TOWNSHIP. THE TOWNSHIP WILL ASSIST IN ANY NECESSARY INVESTIGATION OR DYE TESTING PRIOR TO APPROVING THE PLUGGING OF A FIELD OR STORM CONDUIT. COST OF THE ITEMS ABOVE SHALL BE INCLUDED IN THE COST OF ITEM 611 CONDUIT, TYPE B, 707.45, STORM REPAIR.

THE LOCATION, TYPE, SIZE, AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE TOWNSHIP OR TOWNSHIP'S REPRESENTATIVE DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS AND INCLUDE ALL MATERIALS NECESSARY SUCH AS GRANULAR BEDDING, PROPER FITTINGS AND CONNECTIONS, AND PIPE.

THE FOLLOWING CONTINGENT ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

ITEM 611 4" CONDUIT, TYPE B, 707.45, STORM REPAIR 50 FEET 50 FEET ITEM 611 6" CONDUIT, TYPE B, 707.45, STORM REPAIR ITEM 611 8" CONDUIT, TYPE B, 707.45, STORM REPAIR 50 FEET

# **CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION, OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE TOWNSHIP SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT ANY EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN. THE TOWNSHIP SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN **FXISTING FACILITY.** 

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT

#### WATER MAIN SEPARATION

WHENEVER A SANITARY SEWER AND A WATER MAIN MUST CROSS. THE SEWER SHALL BE LAID BELOW THE WATER MAIN AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18" BELOW THE BOTTOM OF THE WATER MAIN PIPE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE EITHER CONSTRUCTED OF EITHER SLIP-ON OR MECHANICAL JOINT WATER MAIN MATERIAL AND BE PRESSURE TESTED TO 150 PSI TO ENSURE WATER-TIGHTNESS OR BE ENCASED IN A 1/4" THICK CONTINUOUS STEEL, DUCTILE IRON OR PRESSURE RATED, DR 18 OR LESS PVC PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING. THE SEWER SHALL BE THE LONGEST STANDARD LENGTH AVAILABLE AND BE CENTERED AT THE POINT OF CROSSING SO THE JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.

WHENEVER A STORM SEWER AND A WATER MAIN MUST CROSS, THE PIPES SHALL BE LAID AT SUCH ELEVATIONS THAT THE CROWN OF ONE PIPE IS AT LEAST 18" BELOW THE BOTTOM OF THE OTHER.

WATER MAIN MUST BE INSTALLED WITH A MINIMUM OF 10' HORIZONTAL SEPARATION FROM ALL STORM AND SANITARY SEWERS, MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

#### SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE A PROJECT SUPERVISOR ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEMS OF THIS PROJECT.

#### **SAFETY**

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE. MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK

#### MUD

THE TRACKING OR SPILLING OF MUD, DIRT, OR DEBRIS UPON ANDERSON TOWNSHIP STREETS IS PROHIBITED, AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

#### PROPERTY POINTS AND SURVEY **MONUMENTS**

CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR.

PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

# **DEWATERING, COFFERDAMS, AND BY-PASS PUMPING**

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

#### **NONRUBBER TIRE VEHICLES**

NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON TOWNSHIP/COUNTY STREETS. EXCEPTIONS MAY BE GRANTED BY THE TOWNSHIP/COUNTY WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE COUNTY/TOWNSHIP. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE COUNTY/TOWNSHIP'S REPRESENTATIVE SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

PRIOR TO HAULING EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE COUNTY/TOWNSHIP OF THE SPECIFIC ROADS OR STREETS ON THE HAUL ROUTE. IF THE HAUL ROUTE INCLUDES ROADS AND STREETS THAT ARE NOT UNDER THE JURISDICTION AND CONTROL OF THE COUNTY/TOWNSHIP OR OF THE STATE. THE CONTRACTOR MUST USE LOCAL ROADS AND STREETS THAT ARE NOT RESTRICTED BY LOCAL AUTHORITIES. IF IT IS DETERMINED BY THE COUNTY/TOWNSHIP THAT THE HAUL ROADS USED TO HAUL EQUIPMENT AND MATERIALS TO THE DUMP SITE WERE DAMAGED FROM THIS OPERATION, THE COUNTY/TOWNSHIP WILL ORDER THE CONTRACTOR TO PERFORM IMMEDIATE AND PRACTICAL REPAIRS TO ENSURE REASONABLY NORMAL TRAVELING CONDITIONS AND BRING PAVEMENT CONDITIONS BACK TO CONDITIONS EQUAL OR BETTER THAN PRE-OPERATION CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE ALL THIS INTO CONSIDERATION WHEN PICKING A DUMP SITE.

THE CONTRACTOR SHALL NOT FILE A CLAIM FOR DELAYS OR OTHER IMPACTS TO THE WORK CAUSED BY DISPUTE WITH THE LOCAL AUTHORITIES REGARDING THE USE OF LOCAL ROADS OR STREETS AS HAUL ROADS. THE CONTRACTOR SHALL SAVE THE COUNTY/TOWNSHIP AND THE STATE HARMLESS FOR ANY CLOSURES OR HAULING RESTRICTION OUTSIDE THE PROJECT LIMITS BEYOND THE CONTROL OF THE COUNTY OR ODOT.

#### **ASPHALT**

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT, EXCLUDING THE BINDER PRICE ADJUSTMENT PER ODOT 401.20. ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

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WAL OAD SIDEW I TOWNSHIF IL NOTES LFANGEL RC ANDERSON GENERAI LF,

**REVISIONS:** 

**FILE NAME** GNA

DRAWN BY JSM CHECKED BY

WJW

PROJECT No. HAMAND2202

SHEET NUMBER

12/23/2022

3 OF 35

PROVIDE TESTING OF AND CERTIFICATION THAT MATERIAL SUPPLIED FOR THIS PROJECT MEETS THE PROJECT SPECIFICATIONS, IF REQUIRED.

POTENTIAL ITEMS FOR TESTING CONSIST OF TRENCH BACKFILL, EMBANKMENT, AND CONCRETE, WHICH MAY BE PERFORMED BY THE TOWNSHIP IF THEY SUSPECT DEFECTIVE WORK OR MATERIALS.

PAYMENT FOR CERTIFICATION OF WORK SHALL BE INCIDENTAL TO THE VARIOUS ITEMS IT IS RELATED TO AND SHALL INCLUDE ALL COST RELATED TO PROVIDING THE CERTIFICATION. COST OF ANY TESTING BY A TESTING LAB CONTRACTED BY THE TOWNSHIP SHALL BE BORNE BY THE TOWNSHIP, UNLESS THE TEST DOES NOT MEET PROJECT SPECIFICATIONS OR WORK IS FOUND TO BE DEFECTIVE, AT WHICH POINT, THE CONTRACTOR SHALL PAY THE EXPENSES FOR TESTING.

# **ESTIMATED AND CONTINGENT QUANTITIES**

THESE PLANS INCLUDE ESTIMATED AND CONTINGENCY QUANTITIES THAT MAY OR MAY NOT BE USED. ANY UNUSED MATERIAL PURCHASED BY THE CONTRACTOR WILL NOT BE PURCHASED OR REIMBURSED BY THE TOWNSHIP. THE TOWNSHIP WILL NOT APPROVE ANY WORK DELAYS BECAUSE OF THE LACK OF MATERIALS AT THE SITE. ANY RESTOCKING FEES THAT MAY BE CHARGED WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE FOLLOWING CONTINGENT QUANTITIES HAVE BEEN INCLUDED IN THE ESTIMATE FOR POSSIBLE FIELD MODIFICATION BY THE TOWNSHIP AT THEIR DISCRETION:

#### **CAD FILE DISCLAIMER**

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

# ITEM 201 CLEARING AND GRUBBING, **AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 201 CLEARING AND GRUBBING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL CONSIST OF REMOVING AND TRIMMING TREES, REMOVING STUMPS, TRIMMING AND/OR REMOVING BUSHES, REMOVING LANDSCAPE TIMBERS, ETC., AS NOTED ON THE PLANS. WORK SHALL BE COORDINATED WITH THE INDIVIDUAL PROPERTY OWNERS TO ENHANCE MAXIMUM POSSIBLE SATISFACTION.

PAYMENT FOR ITEM 201 CLEARING AND GRUBBING, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE, SHALL BE AT THE CONTRACT LUMP SUM BID PRICE EXCEPT FOR ITEMS PAID FOR AS EACH, AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

#### ITEM 202 REMOVED, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS, EXCEPT AS HEREIN MODIFIED.

ITEM 202 REMOVED, AS PER PLAN CONSISTS OF ALL ITEMS THAT DO NOT HAVE AN INDIVIDUAL REMOVAL BID ITEM, AS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT, INCLUDING SAWCUTTING PAVEMENT.

THE FOLLOWING ODOT 202 ITEMS (PIPE REMOVED, MANHOLE REMOVED, AND CATCH BASIN AND INLET REMOVED) SHALL REFER TO ANY PIPE OR STRUCTURE THAT IS TO BE REMOVED OUTSIDE THE LIMITS OF ANY PROPOSED CONDUIT AND/OR STRUCTURE TRENCH AND SHALL BE PAID FOR UNDER EACH OF THOSE INDIVIDUAL REMOVED LINE ITEMS. ALL EXISTING PIPE, MANHOLE, CATCH BASIN, AND INLET LOCATED WITHIN THE TRENCH LIMITS OF ANY PROPOSED CONDUIT AND/OR STRUCTURE SHALL BE REMOVED FOR THE PROPER INSTALLATION OF THAT ITEM AND ANY ASSOCIATED REMOVAL COSTS SHALL BE INCLUDED IN THE COST OF THAT PROPOSED CONDUIT OR STRUCTURE ITEM. THE TRENCH LIMITS SHALL BE BASED ON THE TRENCH DETAIL SHOWN IN THE CONSTRUCTION PLANS.

ANY ITEM THAT IS REMOVED UNDER OR WITHIN 5' OF PROPOSED CURB, PAVEMENT, SIDEWALK, OR DRIVEWAY SHALL BE BACKFILLED AND COMPACTED USING ONLY ODOT ITEM 703.11 STRUCTURAL BACKFILL TYPE 1 OR 2 STRUCTURAL MATERIAL.

THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT, SIDEWALK AND CURB AGAINST WHICH ALL IMPROVEMENTS ARE PROPOSED. PAVEMENT, WALK, AND CURB SHALL BE SAWCUT IN NEAT, STRAIGHT LINES. SAWCUT PAVEMENT JOINTS SHALL BE INCLUDED IN THE PAYMENT OF THIS ITEM. MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED. THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT, PER 401.22, 409.02 AND 409.03.

ANY PRIVATE PROPERTY WITHIN THE ROAD RIGHT-OF-WAY OR PROJECT CONSTRUCTION LIMITS SHALL BE REMOVED CAREFULLY AND STORED FOR THE PROPERTY OWNER AT A PLACE DESIGNATED BY THE PROPERTY OWNER ON THAT PARTICULAR PROPERTY. ANY SALVAGED PUBLIC ITEMS SHALL REMAIN ANDERSON TOWNSHIP PROPERTY AND SHALL BE CAREFULLY REMOVED BY THE CONTRACTOR AND STORED AT A DESIGNATED LOCATION ON THE PROJECT SITE FOR ANDERSON TOWNSHIP PICKUP.

PAYMENT FOR ITEM 202 REMOVED, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

## ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE, EXCEPT AS HEREIN MODIFIED.

THE CONTRACTOR SHALL PROVIDE WATER OR DRY OUT THE AGGREGATE BASE PER 304.05 BRINGING IT TO WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTING.

THE CONTRACTOR SHALL COMPACT THE AGGREGATE BASE USING APPROPRIATE ROLLERS PER 304.04. IN A TRENCH INSTALLATION, THE CONTRACTOR SHALL COMPACT AGGREGATE BASE, WITH PLATE COMPACTOR, SMALL SHEEP'S FOOT ROLLER OR OTHER APPROVED METHOD, IN LIFTS OF NO MORE THAN 4" OR AS SPECIFIED IN THE TRENCH DETAIL. THE CONTRACTOR IS TO SUPPLY STANDARD PROCTOR RESULTS FOR THE BACKFILL MATERIAL TO BE USED. COMPACTION TESTS MAY BE PERFORMED ON THE AGGREGATE AT THE DISCRETION OF THE TOWNSHIP. TRENCH COMPACTION SHALL MEET OR EXCEED 95% STANDARD PROCTOR.

PAYMENT FOR ITEM 304 AGGREGATE BASE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

# **ITEM 614 MAINTAINING TRAFFIC**

IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITHIN THESE PLANS WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY OF, THE CONTRACTOR, LOCAL MERCHANTS, PEDESTRIAN TRAFFIC, AND THE TRAVELING PUBLIC.

REQUIREMENTS FOR MAINTAINING TRAFFIC AS SPECIFIED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (CURRENT EDITION, LATEST REVISION), PERTINENT PROVISIONS OF THE "OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS" (INCLUDING SUPPLEMENTAL SPECIFICATIONS) AND APPLICABLE STANDARD CONSTRUCTION DRAWINGS SHALL APPLY TO THIS PROJECT IN ADDITION TO THE FOLLOWING NOTES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFECTIVE VEHICULAR TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. THIS WILL INCLUDE PROVIDING, PLACING, MAINTAINING, AND SUBSEQUENTLY REMOVING ALL NECESSARY TRAFFIC CONTROL MEASURES FOR ALL PROPOSED CONSTRUCTION OPERATIONS.

BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE TOWNSHIP AND COUNTY THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS A DAY BY THE TOWNSHIP AND COUNTY, OR ANY OTHER INTERESTED POLICE AGENCY.

THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL TRAFFIC CONTROL DEVICES NEEDED TO MAINTAIN THE SAFETY OF THE TRAVELED PAVEMENT FOR THE DURATION OF THIS PROJECT. THIS PERSON SHALL HAVE AVAILABLE ALL MATERIALS. EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED REPAIRS WITHIN A REASONABLE PERIOD OF TIME AS PER C.M.S. 614.14.

THE CONTRACTOR SHALL ALSO SUBMIT A CONSTRUCTION SEQUENCING SCHEDULE PRIOR TO WORK BEGINNING FOR APPROVAL BY THE TOWNSHIP AND COUNTY. THE CONSTRUCTION SEQUENCING SCHEDULE SHALL TAKE INTO CONSIDERATION ALL ASPECTS OF THE PROJECT INCLUDING HOW LOCAL TRAFFIC TO THE BUSINESSES WILL BE MAINTAINED. THE CONSTRUCTION SEQUENCE WILL NEED TO BE APPROVED BY THE TOWNSHIP AND COUNTY PRIOR TO ANY COMMENCEMENT OF WORK.

ACCESS FOR PROPERTY OWNERS AND BUSINESS TRAFFIC SHALL BE MAINTAINED IN A UNIFORM PATTERN THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT AND SHALL NOT BE SUBJECTED TO CONSTANT LANE

ACCESS TO AND FROM ALL LOCAL RESIDENTIAL AND BUSINESS DRIVES WITHIN THE LIMITS OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES (24 HOURS A DAY) BY USING THE EXISTING PAVEMENT, TEMPORARY PAVEMENT, AND THE PROPOSED PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEQUENCE HIS WORK TO HELP MINIMIZE THE NEED FOR TEMPORARY AGGREGATE PAVEMENT. TEMPORARY AGGREGATE PAVEMENT CAN BE ASPHALT GRINDINGS OR OTHER AGGREGATE APPROVED BY THE TOWNSHIP AND COUNTY. THE COST OF INSTALLATION, MATERIAL, AND REMOVAL OF THE TEMPORARY AGGREGATE PAVEMENT IS TO BE PART OF THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

WHERE MORE THAN ONE ACCESS TO A BUSINESS OR RESIDENCE EXISTS. ONLY ONE ACCESS NEEDS TO BE MAINTAINED AT A TIME DURING CONSTRUCTION. WHEN A BUSINESS OR RESIDENCE ONLY HAS ONE ACCESS DRIVE, ACCESS SHALL BE MAINTAINED AT ALL TIMES. IF THE PROJECT REQUIRES IMPROVEMENTS TO THIS ACCESS DRIVE, THE CONTRATCOR SHALL REPLACE HALF OF THE DRIVE AT ONE TIME TO ALLOW ACCESS AT ALL TIMES. THESE ACCESS OPTIONS ARE SUBJECT TO THE APPROVAL OF THE TOWNSHIP AND COUNTY.

THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP AND COUNTY 21 DAYS PRIOR TO THE START OF ANY DETOUR OR LANE RESTRICTIONS. THE TOWNSHIP AND COUNTY IS REQUIRED TO PROVIDE A 14 DAY NOTIFICATION PRIOR TO THE START OF DETOUR/LANE RESTRICTIONS TO ODOT, LOCAL SCHOOLS, AND EMERGENCY SERVICES. THIS DETOUR/LANE RESTRICTION COMMUNICATION MUST STATE THE DATE OF CLOSURE AND LENGTH OF CLOSURE.

ANY DAMAGE TO MAINTENANCE OF TRAFFIC EQUIPMENT SUCH AS SIGNS, BARRELS, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, MAINTAIN (IN PROPER POSITION, CLEAN AND LEGIBLE, AND IN GOOD WORKING CONDITION), AND SUBSEQUENTLY REMOVE ALL LIGHTS, SIGNS, CONES, BARRICADES, EXISTING PAVEMENT MARKINGS, AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL ADJUST THE LOCATION AND/OR SPACING OF ALL TRAFFIC CONTROL CHANNELING DEVICES AS DICTATED BY THE PROGRESS OF THE REQUIRED WORK TO ALLOW CONSTRUCTION ACCESS TO WORK AREAS WHILE MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL DURING ALL CONSTRUCTION OPERATIONS. THE ORIGINAL LOCATION, PLACEMENT, SPACING AND SUBSEQUENT RELOCATION OR REMOVAL OF ALL TRAFFIC CONTROL DEVICES SHALL BE SUBJECT TO THE TOWNSHIP AND COUNTY'S APPROVAL.

IT IS INTENDED THAT THE LOCAL TRAFFIC NOT BE SUBJECTED TO ANY LANE CLOSURES UNLESS ACTIVE WORK IS BEING PERFORMED IN OR IMMEDIATELY ADJACENT TO THE CLOSED LANE. THE ROADWAY SHALL NOT BE RESTRICTED TO ANY LANE CLOSURE DURING PERIODS OF INTERMITTENT OR IRREGULAR WORK, NOR CLOSED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE TOWNSHIP AND COUNTY SHALL MAKE THE FINAL DETERMINATION AS TO WHAT CONSTITUTES ACTIVE WORK AND WHETHER OR NOT THE LANE CLOSURE IS JUSTIFIED.

IF. IN THE OPINION OF THE TOWNSHIP AND COUNTY, THE LANE CLOSURE IS NOT JUSTIFIED, THEY MAY ORDER ALL OR PART OF THE LANE CLOSURE REOPENED TO LOCAL TRAFFIC (UNTIL SUCH TIME THIS CONDITION IS CORRECTED.)

THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2) SIGNS, PLACED AT EACH CROSSROAD IN THE PROJECT AREA, AS WELL AS OTHER NECESSARY MAINTENANCE OF TRAFFIC SIGNS.

THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP AND COUNTY OF ANY INTENDED CHANGES TO ANY EXISTING OR TEMPORARY TRAFFIC CONTROL DEVICES AND SHALL OBTAIN THE TOWNSHIP AND COUNTY'S APPROVAL PRIOR TO MAKING THE CHANGES. THE CONTRACTOR SHALL ALSO NOTIFY THE TOWNSHIP AND COUNTY AND LOCAL NEWSPAPER FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY INTENDED LANE CLOSURES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

# **ITEM 623 CONSTRUCTION LAYOUT STAKES** AND SURVEYING, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 623 CONSTRUCTION LAYOUT STAKES, EXCEPT AS HEREIN MODIFIED.

THE VERTICAL CONTROL IS LISTED ON THE PLANS WITH THE BENCHMARKS. TRAVERSE POINTS ARE SHOWN BELOW FOR HORIZONTAL CONTROL. THE BEARINGS ARE LISTED FOR THE CENTERLINE OF CONSTRUCTION.

PAYMENT FOR ITEM 623 CONSTRUCTION LAYOUT STAKES, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT, REQUIRED TO COMPLETE THIS ITEM OF

# ITEM 659 SEEDING AND MULCHING, **CLASS 1, AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL AREAS DESIGNATED FOR SEEDING SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON PROJECT WORK LIMITS.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE TOWNSHIP WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.

ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND TOWNSHIP, AT THE CONTRACTOR'S SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL

FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

# ITEM SPECIAL REMOVE AND RESET MAILBOX, AS PER PLAN

THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX, SUPPORT, AND HARDWARE. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION. THE CONTRACTOR WILL BE REQUIRED TO RESET THE EXISTING BOX AND SUPPORT USING THE EXISTING HARDWARE TO A CONDITION EQUAL TO THE CONDITION OF THE BOX AND SUPPORT PRIOR TO THE START OF CONSTRUCTION.

ANY BOX, SUPPORT, OR HARDWARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS. AS DETERMINED BY THE OWNER, AT THE CONTRACTOR'S EXPENSE.

ALL BOXES WILL BE REPLACED IN THE SAME LOCATION AND MUST BE RESET THE SAME DAY SO DELIVERY IS NOT INTERRUPTED.

MAILBOX, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL REMOVE AND RESET MAILBOX. AS PER PLAN.

#### ITEM SPECIAL RETAINING WALL

THIS ITEM OF WORK SHALL INCLUDE ALL EXCAVATION, LEVELING PAD, RETAINING WALL CONSTRUCTION, BACKFILL, GEOTEXTILE FABRIC, AND COMPACTION NECESSARY TO CONSTRUCT RETAINING WALLS AS SHOWN ON THE PLANS AND SPECIFIED BY WALL MANUFACTURER.

THE CONTRACTOR SHALL BE PAID FOR THE VERTICAL SQUARE FEET OF SURFACE AREA OF WALL INSTALLED INCLUDING CAP AND SHALL INCLUDE ALL ENGINEERING, SOIL TESTING AS NEEDED, EXCAVATION, BACKFILL, LEVELING PAD, CORE FILL, PERFORATED TILE, TILE OUTLET, ANY ITEMS NEEDED/SPECIFIED BY THE WALL MANUFACTURER, ETC.

PAYMENT FOR ITEM SPECIAL PRE-CAST BLOCK RETAINING WALL. FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE FOOT PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND

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# SOAD SIDEWALK N TOWNSHIP AL NOTES OLFANGEL RO ANDERSON GENERAL

**REVISIONS:** 

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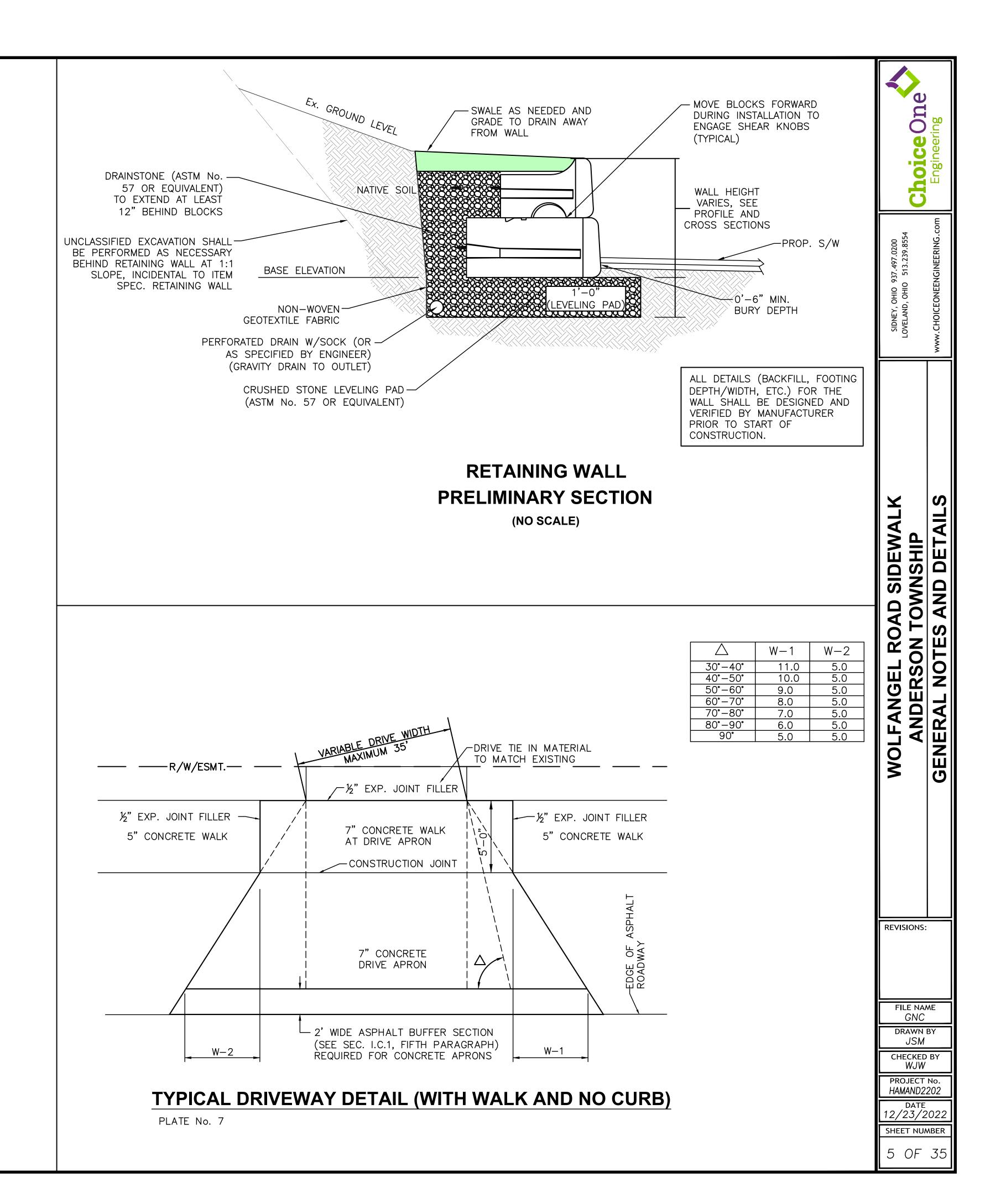
EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

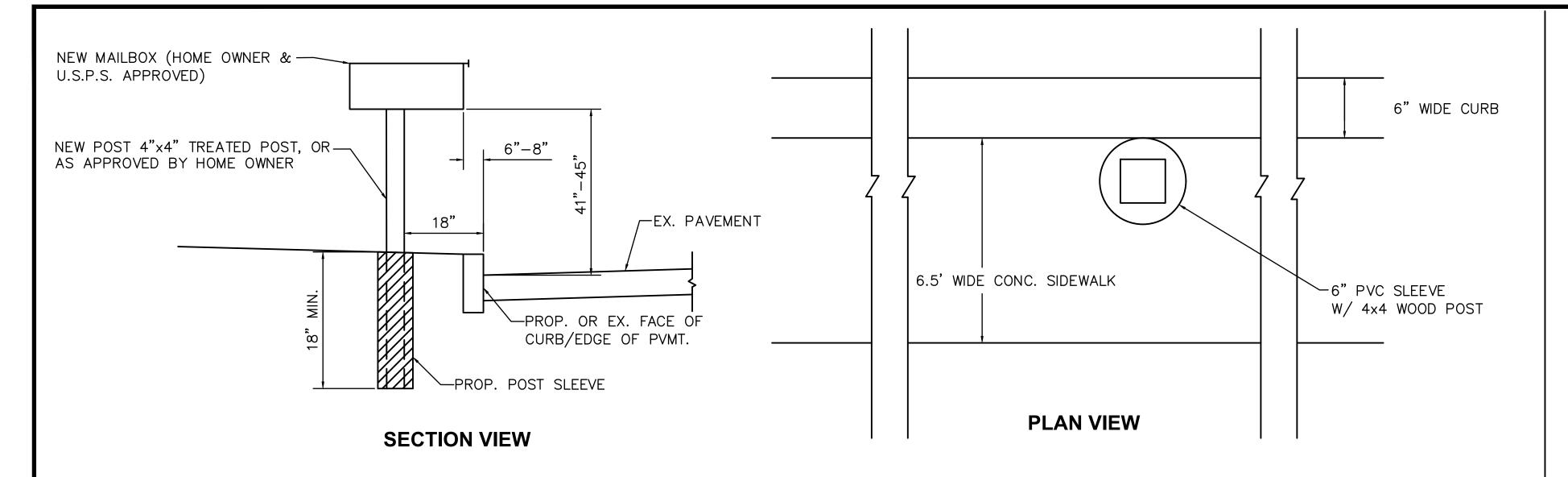
CONTRACTOR SHALL SUBMIT MANUFACTURER SPECIFICATIONS AND COLOR FOR FINAL APPROVAL TO THE TOWNSHIP PRIOR TO ORDERING MATERIAL.

#### SIDEWALK AND CURB JOINTS

- 1. GENERAL: CONSTRUCT ISOLATION, CONSTRUCTION, AND CONTRACTION JOINTS, AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.
- a. WHEN JOINING EXISTING SIDEWALK OR CURB, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY—PLACED JOINTS, UNLESS OTHERWISE INDICATED.
- 2. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATION OF SIDEWALK OR CURB AND AT LOCATIONS WHERE SIDEWALK OR CURB OPERATIONS ARE STOPPED FOR MORE THAN ONE—HALF HOUR, UNLESS SIDEWALK OR CURB TERMINATES AT ISOLATION JOINTS.
- 3. ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT—FILLER STRIPS ABUTTING MANHOLES, STRUCTURES, WALKS, OTHER FIXED OBJECTS, AND WHERE INDICATED.
- a. LOCATE EXPANSION JOINTS AT INTERVALS OF 60' IN SIDEWALK AND 200' IN CURB, UNLESS OTHERWISE INDICATED.
- b. THE EXPANSION JOINT MATERIAL SHALL BE FOAM TECH BY NMW, INC. OR EQUIVALENT. THE EXPANSION JOINT MATERIAL SHALL HAVE A "PEEL—OFF" TOP FOR CAULKING PURPOSES.
- c. REMOVE "PEEL-OFF" TOP AFTER CONCRETE IS SET AND MAKE SURE THE EXPANSION JOINT MATERIAL IS 1/2" 3/4" BELOW THE FINISHED CONCRETE SURFACE.
- d. PLACE JOINT FILLER (SONOLASTIC ULTRA, EUCOLASTIC 1, OR EQUIVALENT) IN LIME STONE COLOR IN THE TOP 1/2" 3/4" OF JOINT FOLLOWING MANUFACTURER INSTALLATION RECOMMENDATION. CONTRACTOR TO PLACE WHITE SILICA SAND ON TOP OF JOINT FILLER AFTER INITIAL SET.
- 4. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED IN THE PLANS. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, WHERE INDICATED, AS FOLLOWS:
- a. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVER TOOL TO THE FOLLOWING RADIUS. ELIMINATE GROOVER OVERFLOW SLURRY MARKS ON CONCRETE SURFACES PRIOR TO FINAL BROOMING. RADIUS TO BE 1/4" (6 MM).
- D. SAWED JOINTS WILL NOT BE PERMITTED.

  OLIALITY WORK AS DETERMINED BY THE TOWNSHIP SH
- c. QUALITY WORK, AS DETERMINED BY THE TOWNSHIP, SHALL BE PERFORMED OR THE NEW SIDEWALK OR CURB WILL BE REMOVED AND REDONE AT THE CONTRACTOR'S EXPENSE.
- 5. CURING COMPOUND: APPLY 2 COATS OF SUPER DIAMOND CLEAR CURING AND SEALING COMPOUND, WR MEADOWS, INC. CS-309-25, OR APPROVED EQUIVALENT PER MANUFACTURER'S RECOMMENDATIONS, ON ALL SURFACES, INCLUDING BACK, IMMEDIATELY AFTER FINISHING SURFACES.





#### NOTE:

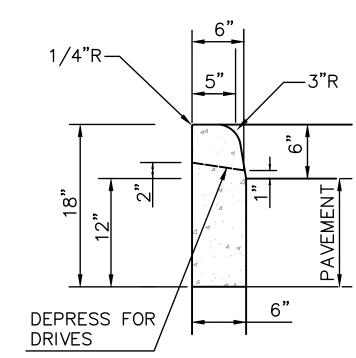
A. PVC SLEEVE IS FILLED WITH 10" OF STONE WITH 2" OF GROUT ON SURFACE.

**B.** ALL COSTS TO REMOVE Ex. MAILBOX (MB) & POST, INSTALLING POST SLEEVE AT NEW LOCATION, FURNISHING & INSTALLING NEW POST & MB & INSTALLING THEM IN SLEEVE ARE INCLUDED IN UNIT COST BID FOR EACH, MAILBOX RELOCATION.

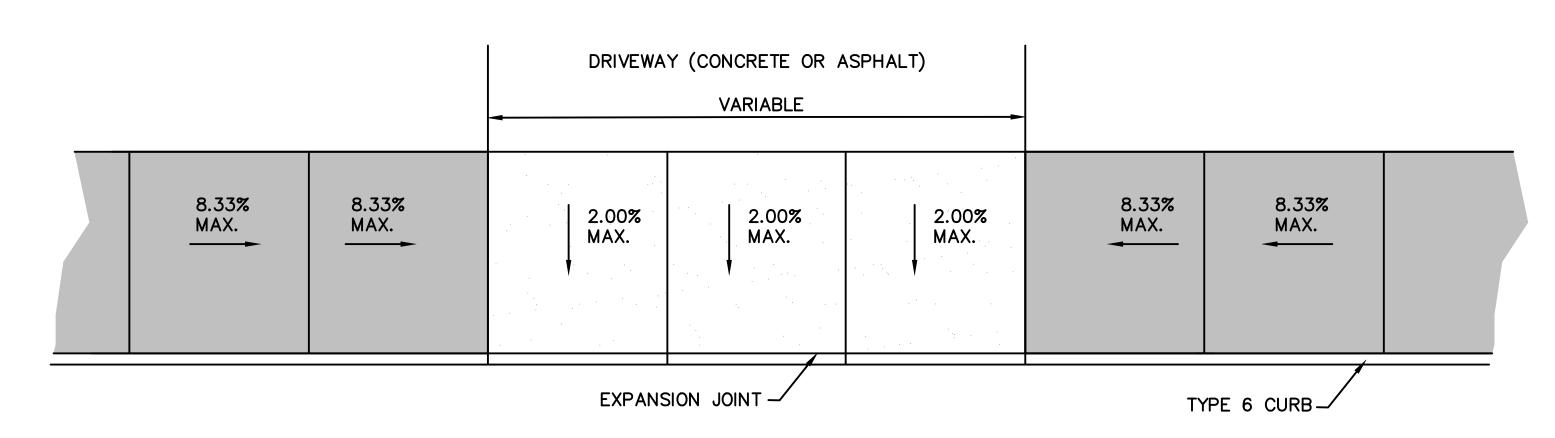
## TYPICAL MAILBOX INSTALLATION IN SIDEWALK DETAIL

#### **CURB NOTES**

- 1. CONCRETE AND WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT QC-1P AT DRIVEWAYS AND CURB, IT SHALL MEET QC MISC. EVERYWHERE ELSE (CEMENT ONLY NO POZZOLAN MATERIAL).
- 2. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10'.
- 3. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING, INCIDENTAL TO ITEM 609, TYPE 6 CURB.
- 4. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED.
- 5. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.
- 6. APPLY WHITE PIGMENT CURING COMPOUND OR APPROVED EQUIVALENT PER MANUFACTURERS RECOMMENDATION ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES.
- 7. 1/2" PREMOLDED EXPANSION JOINTS SHALL BE CONSTRUCTED EACH SIDE OF DRIVE APPROACH SECTIONS AND AT P.C. POINTS, AT INTERSECTIONS, AND AT 100' MAX. INTERVALS.

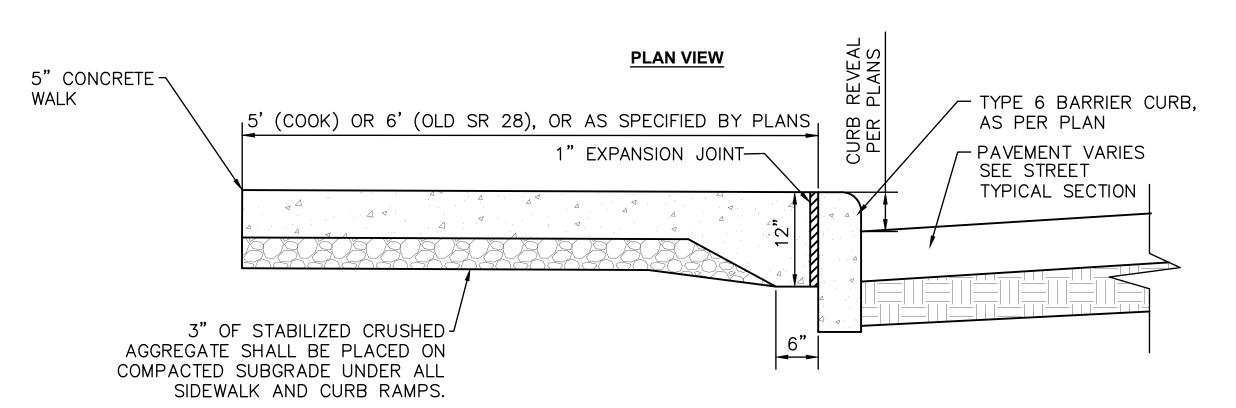


TYPE 6
BARRIER CURB



NOTE: SIDEWALK TO RAMP DOWN ON EITHER SIDE OF DRIVE SO THAT 2% CROSS SLOPE IS MAINTAINED

TYPICAL DRIVEWAY DETAIL (WITH WALK AND NO CURB LAWN)



# NOTES

- A. WALK TO BE POURED ON 3" OF STABILIZED CRUSHED AGGREGATE
- B. PROVIDE BROOM FINISH AND HAND TOOLED EDGING (MINIMUM 2") TO ALL EXPOSED SURFACES.
- C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- D. CONCRETE SHALL BE ODOT CLASS QC-1P.
- E. CONCRETE SHALL CONTAIN  $7\% \pm 2\%$  OF TOTAL AIR.

# **CONCRETE SIDEWALK ABUTTING BARRIER CURB**

ROAD SIDEWALK
N TOWNSHIP
ES AND DETAILS **REVISIONS:** FILE NAME GND DRAWN BY JSM CHECKED BY WJWPROJECT No. HAMAND2202 12/23/2022 SHEET NUMBER

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# PLAN VIEW

#### **SIDEWALK NOTE:**

- A. WALK TO BE POURED ON ITEM 411, 3" STABILIZED CRUSHED AGGREGATE BEDDING.
  B. EQUIPMENT: SIDE FORMS SHALL BE OF STEEL, STRAIGHT AND OF A DEPTH EQUAL TO THE THICKNESS OF THE PAVEMENT AT ITS EDGE. THE USE OF BENT OR DAMAGED SIDE FORMS OR FORMS WITH DAMAGE JOINT LOCKS OR PIN POCKETS SHALL NOT BE PERMITTED. ALL FORMS SHALL BE CLEANED AND OILED EACH TIME THEY ARE USED. FLEXIBLE OR CURVED FORMS SHALL BE USED FOR CONSTRUCTION OF CIRCULAR PAVEMENT EDGES WHERE RADIUS IS ONE HUNDRED FEET (100') OR LESS.
- C. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES. TEXTURE SHALL BE A MEDIUM BROOM WITH TOOL FINISH, TOWNSHIP TO REVIEW AND APPROVE FIRST POUR.
- D. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- E. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.
- F. APPLY 2 COATS OF SUPER DIAMOND CLEAR CURING AND SEALING COMPOUND OR WR MEADOWS, INC. CS-309-25, OR APPROVED EQUIVALENT PER MANUFACTURER'S RECOMMENDATION ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES.
- G. CONCRETE SHALL BE ODOT CLASS QC MISC. OR QC-1, (4000 PSI, 600LB. C.Y. CEMENT) ALL SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 5"
- H. EXPANSION JOINTS SHALL BE VINYL EXPANSION JOINT MATERIAL, MEETING ASTM D-1752 AND AASHTO 153-98.
- I. CONTRACTION JOINTS: FORM WEAKENED—PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED IN THE PLANS. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE—FOURTH OF THE CONCRETE THICKNESS, WHERE INDICATED, AS FOLLOWS:
  - GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVER TOOL TO THE FOLLOWING RADIUS. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVER OVERFLOW SLURRY MARKS ON CONCRETE SURFACES. QUALITY WORK SHALL BE PERFORMED OR THE NEW SIDEWALK WILL BE REMOVED AND REDONE AT THE CONTRACTOR'S EXPENSE. RADIUS TO BE 1/4 INCH (6 MM).
  - b. SAWED JOINTS WILL NOT BE PERMITTED.
- J. EDGING: TOOL EDGES OF JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL TO A RADIUS OF 1/4 INCH (6 MM). REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ("PICTURE—FRAME" EACH SECTION OF CONCRETE WALK.) ELIMINATE TOOL MARKS (OVERFLOW SLURRY) ON CONCRETE SURFACES.
- K. CONTRACTOR TO PROVIDE ISOLATION JOINTS BETWEEN FIXED OBJECTS (POLES, WATER METERS, ETC.) THAT ARE SHOWN IN THE PLANS WHERE THEIR LOCATION FALLS WITHIN THE PROPOSED SIDEWALK LIMITS. ISOLATION JOINTS SHALL BE VINYL EXPANSION JOINT MATERIAL, MEETING ASTM D-1752 AND AASHTO 153-98.
- L. WALK SHALL HAVE EXPANSION JOINTS EVERY 100'. REFER TO NOTE H ABOVE FOR EXPANSION JOINT MATERIAL TYPE AND SPECIFICATIONS.



LOVELAND, OHIO 513.239.8554

WOLFANGEL ROAD SIDEWALK ANDERSON TOWNSHIP GENERAL NOTES AND DETAILS

REVISIONS:

FILE NAME
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DRAWN BY
JSM

CHECKED BY

PROJECT No. HAMAND2202

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